

**UNIVERSITY OF EDUCATION, WINNEBA-KUMASI
COLLEGE OF TECHNOLOGY EDUCATION-KUMASI
DEPARTMENT OF TECHNOLOGY EDUCATION**

COURSE OUTLINE

COURSE TITLE: TECHNOLOGY AND SOCIETY
COURSE CODE: TED 449
CREDITS: 3
SEMESTER: 4
LECTURER: STEPHEN K. AMOAKOHENE

COURSE DESCRIPTION

The course is designed to create awareness in the student the effects of technology on the individual and society as a whole

AREAS OF COVERAGE

Unit 1 Activities of Technology

- Consideration of the construction and manufacturing industries
- Types of industry (i.e. Primary, Secondary and tertiary).
- Advantages and disadvantages of labour – intensive automated production line

Unit 2 The effects of industrial technology with particular reference to:

- Materials (i.e. metals and non-metals)
- Economics
- Marketing
- Safety

Unit 3 Environmental Pollution

- Kinds of environmental pollution
- Air pollution (i.e. outdoor and indoor air pollution)
- Water pollution
- Soil pollution (i.e. solid waste, hazardous waste, radiation, heavy metals pesticides)
- Noise pollution

Controlling Pollution

- Government action (i.e. local efforts national efforts, global efforts)
- Science efforts
- Business and industry
- Environmental do's and don'ts (e.g. buy sensibly, insulate windows recycle, don't pour harmful chemicals down the drain, don't overheat or overcool homes, use energy wisely)
- Agriculture
- Environmental organizations
- Individual efforts

Unit 4 Global Warning

- Cause of global warning (i.e. Green house effect)
- The impact of continued global warning
- Reduction global warning

METHODOLOGY

The course should be taught through activities such as discussion, seminar experimentation, investigation etc

ASSESSMENT

The assessment for this course is in two parts

Continuous Assessment Class exercise, Assessment, quizzes etc 40%

End of Semester Examination A2-Hour paper will be set as end of
Semester examination paper-60%

REFERENCES

Fales J.F. et al Technology today and tomorrow. Peoria Glencoe
Publication Cooperation.

Goldfalb T.D (1999) Environmental Issues Eight Edition Guilford
Dushkin / McGraw-Hill

Harms H.R and Swernofsky N.R (1999) Technology Interactions Preoria
Glencoe/McGraw-Hill

Samdani G.S (1996) Safety and Risk Management Tools and Techniques in
the CPI New York. McGraw – Hill Publication